What is claimed is:

1	1.	A system i	for correcting	links to	resources i	in a networ	k, comprising:

- a link checking service unit associated with a first group of resources and configured
- 3 for determining if a location of a resource among the first group of resources has changed;
- 4 and
- a link correction service unit configured for sending a request to the link checking
- 6 service to determine validity of a link, receiving a response indicating a status of the link,
- 7 and modifying a document containing the link based on the received response.
 - 2. The system of claim 1, wherein said document is a World-Wide Web page,
- 2 and said link is a hypertext link.
- The system of claim 1, wherein the link checking service unit sends a
- 2 response message containing a current location of said resource if the location of said
- 3 resource has changed, and the link correction service, in response to receiving the response
- 4 message changing a document containing the link to indicate the current location of the
- 5 resource.
- 1 4. A method of correcting a link in a document, comprising:
- 2 sending a request to a link checking service unit to check a status of a resource
- 3 corresponding to the link;
- 4 receiving a response to said request, the response containing an indication of a
- 5 changed location of the resource; and
- 6 changing the document based on the indication of the changed location of the
- 7 resource.

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1	5.	The method of claim 4, wherein the response further includes a link status
2	code indicatin	g a status of the resource.
1	6.	The method of claim 4, wherein the document is a World-Wide Web page
2	and the link is	a hypertext link.
1	7.	The method of claim 4, wherein the link includes a first uniform resource
2	locator (URL)	and the indication of the changed location of the resource includes a second
3	URL, wherein	the document is changing by changing the first URL in the link to the second
4	URL.	
1	8.	The method of claim 4, wherein the document is changed by automatically
2	deleting the li	nk in the document if the response does not include a replacement link and
3	contains a linl	status code indicating that the link is invalid.
1	9.	The method of claim 4, wherein said sending a request, receiving a response,
2	and changing	the document are performed in a web server.
1	10.	An apparatus for correcting a link in a document, comprising:
2	a docu	ment repository having stored therein one or more documents;
3	a corre	ected document repository having stored therein one or more corrected
4	documents;	

document repository, generate a request for checking the validity of the link, correct the link

document repository, and configured to parse a link from one of the documents in the

a link correction service unit connected to the document repository and the corrected

8	in response to receipt of a response message containing a corrected link, and store a
9	corrected document having the corrected link in the corrected document repository.
1	11. The apparatus of claim 10, wherein the apparatus is part of a web server.
1	12. The apparatus of claim 10, wherein the link is a hypertext link containing a
2	uniform resource locator (URL) and the document is a web page.
1	13. An apparatus for correcting a link in a document, comprising:
2	means for sending a request to a link checking service unit to check a status of a
3	resource corresponding to the link;
4	means for receiving a response to said request, the response containing an indication
5	of a changed location of the resource; and
6	means for changing the document based on the indication of the changed location of
7	the resource.
1	14. A computer readable medium of instructions suitable for execution by a
2	computer, comprising:
3	program instructions for sending a request to a link checking service to check a
4	status of a resource corresponding to the link;
5	program instructions for receiving a response to said request, the response containing
6	an indication of a changed location of the resource; and
7	program instructions for changing the document based on the indication of the

changed location of the resource.

1	15. A method for determining a status of a link in a document, comprising:
2	receiving a request to determine the status of the link in the document, wherein the
3	link includes a location indicator of a resource;
4	detecting if the resource is present within a storage unit at a location indicated by the
5	location indicator;
6	determining if the resource is present at an alternate location if the resource is not
7	detected in the location indicated by the location indicator; and
8	returning an alternate location identifier indicating the alternate location of the
9	resource if the resource is determined to be present at the alternate location.
1	16. The method of claim 15, wherein the link is a hypertext link and the location
2	indicator of the resource is a uniform resource locator (URL).
1	17. The method of claim 16, wherein the resource is a web page.
1	18. The method of claim 16, further comprising returning a link status code
2	indicating whether the resource is present in the storage unit.
1	19. The method of claim 18, wherein the link status code indicates whether the
2	resource has been deleted from the storage unit.
1	20. The method of claim 15, wherein said determining if the resource is present
2	at an alternate location is performed by consulting a mapping table associating a first
3	location indicator with a second location indicator, wherein the first location indicator
Δ	indicates a prior location of the resource and the second location indicator indicates a

present location of the resource.

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- 1 21. The method of claim 20, wherein the first and second location indicators 2 are uniform resource locators (URLs).
- 22. An apparatus for correcting a link in a document, comprising: 1 a document repository having stored therein one or more documents; 2 a mapping table unit having stored therein mapping table information associating 3 a first prior resource-locator with a first present resource-locator, the first prior resource-4 5 locator indicating a prior location of a first resource within the document repository and the first present resource-locator indicating a present location of the first resource; and 6 7 a link checking service unit connected to the document repository and the 8
 - mapping table unit, and configured to locate an entry in the mapping table information based on a requested resource-locator contained in a request for information concerning location of the first resource, to identify the first present resource-locator stored in association with the first prior resource-locator, and to send a response message containing the first present resource-locator.
 - 23. The apparatus of claim 22, wherein the first prior and first present resource-locators are uniform resource locators (URLs).
 - 24. The apparatus of claim 22, wherein the mapping table further includes a second prior resource-locator indicating a location of a second resource and a status code indicating a status of the second prior resource-locator.
- 1 25. The apparatus of claim 24, wherein the status code indicates that the second resource corresponding to the second prior resource-locator has been deleted.

1	26. The apparatus of claim 24, wherein the status code indicates that the
2	second prior resource-locator indicates a present location of the second resource in the
3	document repository.
1	27. The apparatus of claim 22, wherein the apparatus is part of a web server.
1	28. An apparatus for determining a status of a link in a document, comprising:
2	means for storing one or more resources;
3	means for receiving a request to determine the status of the link in the document,
4	wherein the link includes a location indicator of a resource;
5	means for detecting if the resource is present within said means for storing at a
6	location indicated by the location indicator;
7	means for determining if the resource is present at an alternate location if the
8	resource is not detected in the location indicated by the location indicator; and
9	means for returning an alternate location identifier indicating the alternate
0	location of the resource if the resource is determined to be present at the alternate
1	location.
1	29. A computer readable medium of instructions suitable for execution on a
2	computer for determining a status of a link in a document, comprising:
3	program instructions for receiving a request to determine the status of the link in the
4	document, wherein the link includes a location indicator of a resource;
5	program instructions for detecting if the resource is present within a storage unit at a

location indicated by the location indicator;

program instructions for determining if the resource is present at an alternate location
if the resource is not detected in the location indicated by the location indicator; and
program instructions for returning an alternate location identifier indicating the
alternate location of the resource if the resource is determined to be present at the alternate location.

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